

PAT-NO: JP360203647A

DOCUMENT-IDENTIFIER: JP 60203647 A

TITLE: MANUFACTURE OF SURFACE-MODIFIED EXPANDABLE
STYRENE RESIN BEADS

PUBN-DATE: October 15, 1985

INVENTOR-INFORMATION:

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APPL-NO: JP59060140

APPL-DATE: March 28, 1984

INT-CL (IPC): C08J009/22

US-CL-CURRENT: 521/57

ABSTRACT:

PURPOSE: To obtain the titled styrene resin beads with enhanced resistance to blocking in prefoaming operation and cooling time shortening effect in molding process, by coating, using silicone oil as a binder, surface modifier on expandable styrene resin beads to raise the adhesive force of said modifier.

CONSTITUTION: The objective resin beads can be obtained by incorporating (A) expandable styrene resin beads containing volatile swelling agent

with (B)

0.01~2 (pref. 0.1~1)wt% of a surface modifier with a melting point

45~130 (pref. 55~95)°C (e.g metallic soap, either partial or

complete ester from higher fatty acid and polyhydric alcohol) and (C)

0.005~0.2 (pref. 0.01~0.1)wt% of silicone oil (pref. methyl phenylpolysiloxane). Said surface modifier is preferably prepared by incorporating (1) 100pts.wt. of either mono-, di- or triester from glycerin

and stearic acid with (2) 30~100pts.wt. of a metallic soap having

lubricant effect.

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DERWENT-ACC-NO: 1985-293948

DERWENT-WEEK: 198547

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TITLE: Surface-modified foaming styrene! resin
granules prodn. - by adhering surface modifiers to surface of
foaming styrene! resin granules contg. volatilising
expanding agents, using silicone oil binder

PATENT-ASSIGNEE: YUKA BADISCHE KK[YUKAN]

PRIORITY-DATA: 1984JP-0060140 (March 28, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
<u>JP 60203647 A</u>	October 15, 1985	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
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INT-CL (IPC): C08J009/22

ABSTRACTED-PUB-NO: JP 60203647A

BASIC-ABSTRACT:

The styrene resin granules are produced by adhering (1) surface modifiers preventing blocking of the resin granules at the time of prefoaming and reducing the cooling time at the time of foaming and moulding and having m.pts. of 45-130 deg.C to the surface of (2) foaming styrene resin granules contg. volatilising expanding agents by the use of (3) silicone oils as binder.

Specifically volatilising expanding agents, e.g. propane, methyl

chloride,
petroleum ether are added to styrene resin granules in an amt. of 3-15 wt.%,
pref. 4-8 wt'%. (1) includes e.g. polyethylene wax, zinc stearate, glycerine monostearate. Partic. the surface modifier mixts. comprising 100 pts. wt. of mono-, di- or triesters of glycerine and stearic acid, or their mixt. and 30-100 pts. wt. of metal soaps are pref. used. (1) is used in an amt. of 0.01-2 wt.%, pref. 0.1-1 wt.% of (2). (3) includes pref. methylphenylpolysiloxane.

ADVANTAGE - The styrene resin granules show small blocking at the time of forming prefoamed granules and enable redn. in the cooling time at the time of moulding foams.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: SURFACE MODIFIED FOAM POLYSTYRENE RESIN GRANULE PRODUCE ADHERE

SURFACE MODIFIED SURFACE FOAM POLYSTYRENE RESIN GRANULE
CONTAIN
VOLATILE EXPAND AGENT SILICONE OIL BIND

DERWENT-CLASS: A13 E19

CPI-CODES: A06-A00E; A08-B04; A08-M07; A12-S01A; A12-S09; E05-L03C;
E10-E04G;
E10-E04K; E10-G02G;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

A430 A960 C710 J0 J011 J1 J171 M225 M226 M231
M232 M233 M262 M281 M320 M411 M416 M510 M520 M530
M540 M620 M630 M781 M903 Q133 R032 R044

Chemical Indexing M3 *02*

Fragmentation Code

H401 H402 H481 H482 J0 J011 J012 J013 J2 J271
J272 J273 M225 M226 M231 M232 M233 M262 M281 M282
M283 M313 M321 M332 M343 M383 M391 M416 M620 M781
M903 Q133 R032 R044

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0335U; 1377U ; 5216U ; 5218U ;
5220U ; 5317U